

Rabbit NOV/CCN3 Polyclonal Antibody | anti-NOV antibody

Anti-NOV/CCN3 Picoband Antibody

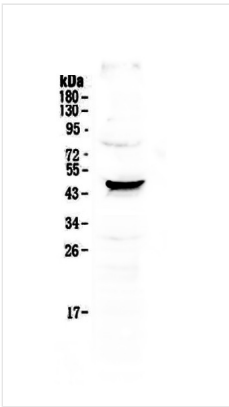
CATALOG # AAA124733	HOST Rabbit	REACTIVITY Rat No cross reactivity with other proteins.	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

NOV/CCN3; Polyclonal Antibody; Anti-NOV/CCN3 Picoband Antibody; Protein NOV homolog; NovH; CCN family member 3; Insulin-like growth factor-binding protein 9; IBP-9; IGF-binding protein 9; IGFBP-9; Nephroblastoma-overexpressed gene protein homolog; NOV; CCN3; IGFBP9; NOVH; anti-NOV antibody

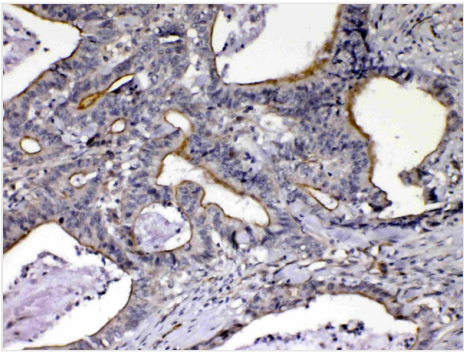
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	357
Applicable Applications for anti-NOV antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human NOV/CCN3 (334-357aa HTNCPKNNEAFLQELELKTTRGKM), different from the related mouse sequence by seven amino acids, and from the related rat sequence by four amino acids.
Subcellular Localization	Secreted.
Tissue Specificity	Expressed in bone marrow, thymic cells and nephroblastoma. Increased expression in Wilms tumor of the stromal type.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



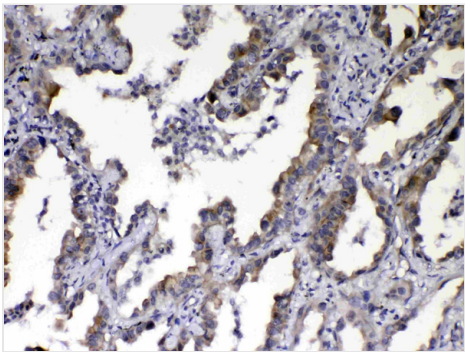
WB (Western Blot)

Figure 1. Western blot analysis of NOV/CCN3 using anti-NOV/CCN3 antibody (AAA124733). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NOV/CCN3 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NOV/CCN3 at approximately 47KD. The expected band size for NOV/CCN3 is at 39KD.



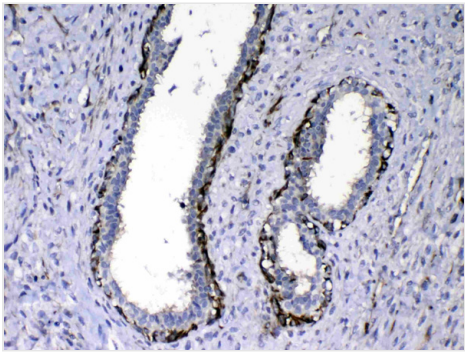
IHC (Immunohistochemistry)

Figure 2. IHC analysis of NOV/CCN3 using anti-NOV/CCN3 antibody (AAA124733). NOV/CCN3 was detected in paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-NOV/CCN3 Antibody (AAA124733) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



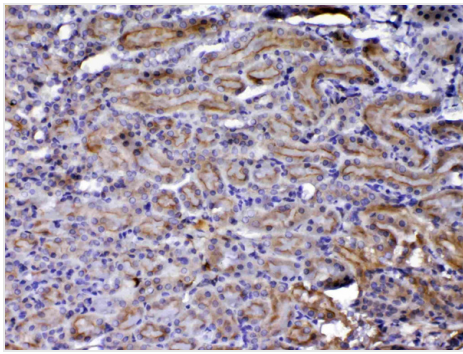
IHC (Immunohistochemistry)

Figure 3. IHC analysis of NOV/CCN3 using anti-NOV/CCN3 antibody (AAA124733). NOV/CCN3 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-NOV/CCN3 Antibody (AAA124733) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of NOV/CCN3 using anti-NOV/CCN3 antibody (AAA124733). NOV/CCN3 was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-NOV/CCN3 Antibody (AAA124733) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of NOV/CCN3 using anti-NOV/CCN3 antibody (AAA124733).NOV/CCN3 was detected in paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-NOV/CCN3 Antibody (AAA124733) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-NOV antibody	Description: NOV (nephroblastoma overexpressed), also known as CCN3, is a matricellular protein that in humans is encoded by the NOV gene. The protein encoded by this gene is a small secreted cysteine-rich protein and a member of the CCN family of regulatory proteins. CNN family proteins associate with the extracellular matrix and play an important role in cardiovascular and skeletal development, fibrosis and cancer development. Protein Function: Immediate-early protein likely to play a role in cell growth regulation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505423
NCBI GeneID	4856
NCBI Accession #	NP_002505.1
NCBI GenBank Nucleotide #	NM_002514.3
UniProt Accession #	P48745; Q6I9S3; Q96BY5; Q9UDE4; B2R5X7
Molecular Weight	39162 MW
NCBI Official Full Name	protein NOV homolog
NCBI Official Synonym Full Names	nephroblastoma overexpressed
NCBI Official Symbol	NOV
NCBI Official Synonym Symbols	CCN3; NOVh; IBP-9; IGFBP9; IGFBP-9
NCBI Protein Information	protein NOV homolog
UniProt Protein Name	Protein NOV homolog
UniProt Gene Name	NOV
UniProt Synonym Gene Names	CCN3; IGFBP9; NOVH; NovH; IBP-9; IGF-binding protein 9; IGFBP-9

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.